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NOTICE OF ALLOWANCE AND FEE(S) DUE

466 7590

12/15/2010

YOUNG & THOMPSON 209 Madison Street Suite 500 Alexandria, VA 22314 EXAMINER BOATENG, ALEXIS ASIEDUA

ART UNIT PAPER NUMBER

2858 DATE MAILED: 12/15/2010

 APPELCATION NO.
 FILING DATE
 FIRST NAMED INVENTOR
 ATTORNEY DOCKET NO.
 CONFIRMATION NO.

 10/593.825
 09/22/2006
 Jean-Michel Cour
 0501-1168
 4451

TITLE OF INVENTION; METHOD AND DEVICE TOLERANT TO DIRECT CURRENT SOURCE FLUCTUATION FOR PULSE CHARGING A BATTERY

DATTERT

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300	\$0	\$1055	03/15/2011

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

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III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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THE TRANSPORTED TO THE ATTORNESS OF THE BOOK I for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.			
YOUNG & TH 209 Madison Str Suite 500	OMPSON eet	7/2010	I be	Certi	ficate	of Mailing or Trans	mission g deposited with the Uni t class mail in an envelo above, or being facsim ate indicated below.
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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTOR	NEY DOCKET NO.	CONFIRMATION NO.
10/593,825	09/22/2006		Jean-Michel Cour			0501-1168	4451
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nonprovisional	YES	\$755	\$300	\$0		\$1055	03/15/2011
EXAM	INER	ART UNIT	CLASS-SUBCLASS	1			
BOATENG, ALE	EXIS ASIEDUA	2858	320-166000	•			
"Fee Address" indi PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A	ondence address (or Cha b/122) attached. cation (or "Fee Address 2 or more recent) attach ND RESIDENCE DATA	inge of Correspondence "Indication form and. Use of a Customer A TO BE PRINTED O	(1) the names of up or agents OR, alternati (2) the name of a sing registered attorney or 2 registered patent atte listed, no name will be	vely, e firm (having as a ragent) and the names rneys or agents. If no printed.	membe s of up o name	ra 2to	en de constant
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	SMALL ENTITY state	as. See 37 CFR 1.27.	☐ b. Applicant is no lon	ger claiming SMALI	LENT	ITY status. Sec 37 Cl	R 1.27(g)(2).
interest as shown by the r	Publication Fee (if requeended of the United Sta	uired) will not be accep ites Patent and Tradema	oted from anyone other than tark Office.	he applicant; a regist	ered at	torney or agent; or th	e assignee or other party
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10/593,825	09/22/2006	Jean-Michel Cour	0501-1168	4451	
466	7590 12/15/2010		EXAM	UNER	
YOUNG & THOMPSON			BOATENG, ALEXIS ASIEDUA		
209 Madison Stre	et		ART UNIT	PAPER NUMBER	
Suite 500 Alexandria, VA 2	2314		2858 DATE MAII ED: 12/15/201	0	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 228 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 228 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)	
10/593,825	COUR, JEAN-MICH	IEL
Examiner	Art Unit	
Alexis Boateng	2858	

The MAILING DATE of this communication appears on All claims being allowable, PROSECUTION ON THE MERITS IS (OR RE herewith (or previously mailed), a Notice of Allowance (PTOL-85) or othe NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. of the Office or upon petition by the applicant. See 37 CFR 1.313 and MI	MAINS) CLOSED in this application. If not included r appropriate communication will be mailed in due course. THIS This application is subject to withdrawal from issue at the initiativ
 This communication is responsive to the RCE filed 3/17/10. 	
2. The allowed claim(s) is/are <u>9-18</u> .	
3. ☑ Acknowledgment is made of a claim for foreign priority under 35 a) ☑ All b) ☐ Some* c) ☐ None of the: 1. ☑ Certified copies of the priority documents have been r 2. ☐ Certified copies of the priority documents have been r 3. ☐ Copies of the certified copies of the priority documents have been r 3. ☐ Copies of the certified copies of the priority documents international Bureau (PCT Rule 17.2(a)). * Certified copies not received:	eceived. sceived in Application No s have been received in this national stage application from the communication to file a reply complying with the requirements this application. ote the attached EXAMINER'S AMENDMENT or NOTICE OF on(s) why the oath or declaration is deficient. benitted. tent Drawing Review (PTO-948) attached dement / Comment or in the Office action of hould be written on the drawings in the front (not the back) of er according to 37 CFR 1.121(d). IOLOGICAL MATERIAL must be submitted. Note the
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. Notice of Informal Patent Application
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary (PTO-413),
Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	Paper No./Mail Date 7. ☐ Examiner's Amendment/Comment
4. Examiner's Comment Regarding Requirement for Deposit	8. Examiner's Statement of Reasons for Allowance
of Biological Material	9. ☐ Other .

U.S. Patent and Trademark Office PTOL-37 (Rev. 08-06)

Primary Examiner, Art Unit 2858

/Edward Tso/

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Art Unit: 2858

DETAILED ACTION

Allowable Subject Matter

Claims 9 – 18 are allowed.

- 2. The following is an examiner's statement of reasons for allowance: Regarding claim 9, the prior art does not disclose or suggest the combination of wherein a method for charging a battery from a direct-current source liable to significant fluctuations, comprising the repetitive steps of: converting the DC voltage from said direct-current source into a DC voltage which is higher than the voltage of said battery, applying said higher DC voltage to the terminals of a storage capacitor, so as to transfer energy into said storage capacitor, detecting a predetermined voltage threshold over the terminals of said storage capacitor, and upon detection of said voltage threshold, connecting said storage capacitor to said battery during a predetermined time, so as to transfer energy of a discharge pulse with predetermined energy from said storage capacitor into said battery.
- Regarding claims 10 and 11, claims are dependent upon claim 9.
- 4. Regarding claim 12, the prior art does not disclose or suggest the combination of wherein device for charging a battery from a direct-current source liable to significant fluctuations, implementing the method according to any of means for storing capacitive energy, means for converting the DC voltage from said direct-current source into a DC voltage which is higher than the voltage of said battery, means for applying said higher DC voltage to the terminals of said capacitive storage means, so as to transfer energy from said converting means into said capacitive storage means, means for detecting a

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predetermined voltage threshold over the terminals of said capacitive storage means, and means for connecting said capacitive storage means to said battery during a predetermined time, so as to transfer energy of a discharge pulse with predetermined energy from said capacitive storage means to said battery, said connecting means being controlled by said threshold detection means.

5. Regarding claim 13, the claims are dependent upon claim 12.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Response to Arguments

Applicant's arguments, see remarks, filed 3/17/10 with respect to claims 9 - 18
have been fully considered and are persuasive. The rejection of claims 9 -18 has been
withdrawn.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alexis Boateng whose telephone number is (571) 272-5979. The examiner can normally be reached on 8:30 am - 6:00 pm, Monday - Friday.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Koval Melissa can be reached on (571) 272-2121. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Edward Tso/ Primary Examiner, Art Unit 2858

AB